EN EN	GINEERING	REDGE		LETTER OF TRANSMITTAL Ref #3
	OAK BROOK	LLINOIS	G 60521 NEC 0 3 15	DATE 11-29-84 JOB NO. OS/-53, 171-53
	(312)	654-479	0	DAN COZZA
ro £	COLOG1	\$ 6	ENVIRONMENT , INC.	RE:
			SON BLVD.	WELL LOGS
	HICAGO,		60606	EFERENCE #6
1	mena ,		US EPA RECORDS CENTER REGION 5	WATTESON - SEXTON
				TE 10 Tr 0480606393
WE ARE	SENDING YOU	X Attac	473226 ched Under separate cover via	the following items:
	☐ Shop draw	ings	☐ Prints ☐ Pla ☐ Change order ☐	
COPIES	DATE	NO.		DESCRIPTION
COPIES	7-74	4	WELL LOGS -	31ST STREET LANDPILL - (HINSDALE)
1	10-77	4		CICHTON PARK LANDFILL - (MATTESON)
				- Caraly Control
THESE AI	RE TRANSMITT	ED as ch	ecked below:	
	☐ For approx			☐ Resubmitcopies for approval
	For your u	ise	☐ Approved as noted	☐ Submit copies for distribution
	'□ As reques	ted		ns
	☐ For review			_ PRINTS RETURNED AFTER LOAN TO US
	☐ FOR BIDS	DUE		_ PRINTS RETURNED AFTER LOAN TO US
REMARKS	DAN -			
	DAIN		OU HAVE ANY QU	ESTIONS CONCERNING THESE
	WFL			ESITATE TO CALL US.
<u> </u>				
			A CONTRACTOR OF THE STATE OF TH	
			The state of the s	
- 12 4 2 3 3 3	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marin	P. PATE LACK NO.	
		•		
COPY TO				signed: Mike Keil
	,		If enclosures are not as noted,	

PRODUCT 240-2 NEBS Inc., Groton, Mass. 01471.



Page 2
Investigation No. 74050138-5
RICHTON PARK

D. Monitoring Well Installa	tion Data			61.5
Well Number	1 W	2 W	3 W	G158
Date Installed	10/13/77.	10/14/77	10/14/77	10/6/77
Total Length Installed	51.0'	44.0'	36.0'	18.3'
Ht. Above Grade, Top	1.0'	1.0'	1.0'	1.3'
Well Pipe ID	4.0"	4.0"	4.0"	4.0"
Well Pipe Material	PVC Sch 40	PVC Sch 40	PVC Sch 40	PVC Sch 40
Well Screen Length	5.0'	4.0'	6.0'	7.0'
Well Screen Size	.020"	.020'	. 020"	.020"
Ground Water Level*				
at installation 24 hours after install.	30.0' 42.0'	Dry Dry	25.0' 23.0'	Dry Dry

*Depth in feet from top of well to ground water surface.

E. Field Investigation

The wells were located in the field at locations stated by vour representative. The wells were placed to depths as requested by the Illinois EPA letter of September 20, 1977. The well installation was started on October 6, 1977, and completed on October 14, 1977. A hollow stem auger (truck mounted) type of drilling rig was used to make the borings. Logs of wells were made by the driller in the field based upon auger cuttings from the bore hole. The soil types, consistency and thickness were recorded in the log, with ground water conditions also recorded. Logs of these wells are enclosed. The 4" PVC plastic pipe was lowered into the bore holes to the required depth. Well point screens were cut by hack saw with cuts on each side of the pipe at 2" intervals. The well point was backfilled with #2 torpedoe sand to about a foot above the well point top. Bentonite-soil was backfilled to grade with the upper 5 feet being thoroughly tamped. The wells were pumped, and the rise in water recorded to test the wells. Dry wells were tested by slug testing, with water placed into the well and the drop in level recorded. Water quality test samples will be reported separately.



Walter H. Flood & Co., Inc.

ENGINEERS

4421 HARRISON STREET HILLSIDE, ILLINOIS 60162 7509 S. WESTNEDGE AVENUE PORTAGE, MICHIGAN 49081

RIM ELEVATION = 733.58

SOIL BORING LOG NO.

1 W

6101

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

Richton Park, Illinois

LOCATION:

METHOD OF BORING HS & A WATER LEVEL READINGS **DRILLING DATA BACKFILLING DATA** 26.0' W.D. S.S. O.D. 2" 140# HAMMER 30" DROP 10/13/77 DATE DATE Dry B.C.R. RF BY SHELBY TUBE SIZE FOREMAN CASING SIZE 3 3/4" IDHS 30.0' 2 A.C.R. CREW NO. METHOD 42' @ 24 JOB NO. 74050138-5 GROUT CORE SIZE HRS. A.D. VERT. SCALE 1" = 10' HRS. A.D. QUANTITY

DEPTH	s	Т	N	LR	DD	DESCRIPTION	QU LABORATORY X 1000 PSF 4	O PENETROMETER 6 8 10
						Ground surface		
0.0						Black silty clay		
1.0		43		Π		Brown and gray silty clay, trace		
		Sp.				of small gravel, very tough		
	240	133						
		1						
100	ME	5-6						
9 7 6		A S						
L - 17								
The same		1		14				
		3						
				111				
		80						
				111			 	
				111				
		30						
		8		111				
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				111				
		ER!						
		-30						
100								
		3		111				
	2 3	5						
45.0	8	12	gu.		1			
45.0 7			7-1			Gray fine to medium sand, some		
				111		silt		
				111				
				111				
	1	1						
55.0	100		300	+++	Service S	End of boring		
55.0								
	100					Note: 4" PVC well installed this		
						bore hole, see text for well data		
				111		bore note, see text for well data		
	S.							
DEPTH	s	Т	N	LR	DD	DESCRIPTION	10 20	30 40 50
DEFILI	0	100	14	B_(F)		DECOMIL HOM	WC ▲ NATURAL %	

LEGEND: A—AUGER
ACR—AFTER CASING REMOVAL
AD—AFTER DRILLING
BCR—BEFORE CASING REMOVAL
C—CORE
DCI—DRY CAVE IN

DD—DRY DENSITY, LB. PER CU. FT.
DEPTH—FEET BELOW
GROUND SURFACE
FT—FISHTAIL
HA—HAND AUGER
HS—HOLLOW STEM AUGER

L—SAMPLE LENGTH
N—PENETRATION, BLOWS PER FT.
QU—UNCON. COMP. STRENGTH
LBS. PER SQ. FT.
R—LENGTH OF SAMP. RECOVERED
S—SAMPLE NUMBER

SS—SPLIT SPOON
ST—SHELBY TUBE
T—TYPE OF SAMPLE
WC—WATER CONTENT %
WCI—WET CAVE IN
WD—WHILE DRILLING
WO—WASHOUT



Walter H. Flood & Co., Inc. ENGINEERS

4421 HARRISON STREET HILLSIDE, ILLINOIS 60162

7509 S. WESTNEDGE AVENUE PORTAGE, MICHIGAN 49081

RIM ELEVATION = 729.75 SOIL BORING LOG NO.

6102

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

	LOCATION: R	ichton Park, Illinois	
METHOD OF BORING HS S.S. O.D. 2" 140# HAMMER 30" DROP SHELBY TUBE SIZE CASING SIZE 45' - 3½" IDHS CORE SIZE	Dry W.D. Dry B.C.R. Dry A.C.R. Dry @ 24 HRS. A.D. HRS. A.D.	DRILLING DATA 10/13/77 DATE 10/13/77 FOREMAN 2 CREW NO. JOB NO. VERT. SCALE 10/13/77 2 74050138-5 1" = 10'	BACKFILLING DATA DATE BY METHOD GROUT QUANTITY

						HRS. A.D. VERT. SC	ALE 1" = 10"	QUANTITY
ЕРТН	S	т	N	LR	DD	DESCRIPTION	QU LABORATORY X 1000 PSF 4	O PENETROMETER
EPIN	2	'	IN.	140		TEODINI III	2 4	6 8 10
	1							
00	Maria			10 of		Ground surface		
0.0				+++		77		
1.5						Black loam		
	Line					Brown to gray silty clay, trace		
K TO		15.4				of small gravel, very tough		
Display 1	1	67		111				
1.0				111				
9				111			1	
914 . 10	4 6 7							
		188					_ 	
	100							
		300						
of the last		MO.						
107								
FALLS		4		111				
	N. S. S.							
	13/4							
	N.S.							
		1						
							 	
4457	1						H	
	-	307						
		PAR						
		100						
	19							
40.0_			-	+++	-			
	1 1 13	17%				Gray silty clay, trace of small		
		18		111		gravel, occasional thin sand and		
45.0	7-6					silt seam, very tough	_	
47.4								
	The same					End of boring		
	5 8							
	H.	1				Note: 4" PVC well installed this	3	
		198		1		bore hole, see text for well		
	1	7				installation data		
		3				Indiana data		
	EGF.	1						
S. Bar Tell		557						
		138						
		100						
				+++			10 20	30 40 50
DEPTH	S	T	N	LR	DD	DESCRIPTION	WC A NATURAL %	
THE PERSON NAMED IN	1	1					I WU A NATURAL 70	



METHOD OF BORING HS

SHELBY TUBE SIZE

CORE SIZE

S.S. O.D. 2" 140# HAMMER 30" DROP

CASING SIZE 40' - 3 3/4" IDHS

Walter H. Flood & Co., Inc.

ENGINEERS

4421 HARRISON STREET HILLSIDE, ILLINOIS 60162 7509 S. WESTNEDGE AVENUE PORTAGE, MICHIGAN 49081 RIM ELEVATION = 722.20

SOIL BORING LOG NO.

3 W

BACKFILLING DATA

6103

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

Richton Park, Illinois LOCATION:

DRILLING DATA

WATER LEVEL READINGS Dry W.D. 10' B.C.R.

37' A.C.R.

CREW NO. 23.0' @ 24 HRS. A.D. JOB NO.

10/14/77 DATE RF **FOREMAN**

2 74050138-5

METHOD GROUT

DATE

BY

		-		111		HRS. A.D. VERT. SCA	LE 1" = 10'	OPENETROMETER
DEPTH	s	Т	N	LR	DD	DESCRIPTION	QU LABORATORY X 1000 PSF 4	O PENETROMETER 6 8 10
				+++				
		2 4				Ground surface		
300		24				Ground Surface		
0.0				+++				12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
						Black loam		
3.0				111			 	
3.0		19				Brown and gray silty clay, trace		
		1				Brown and gray stilly clay, trace		
The same		124				of small gravel, very tough		
		- 3						
100		1						
		18.3						
- FEE								
				111				
1	T. S							
	13.4							
		130						
		1						
SE BULL		MAS		111				
		188						
	11/2	100						
	Mary St							
							 	
35.0	200		12.0	+++		Gray silty clay, trace of small		984819 1010 413302 4141101 471 2
		1				Gray Silty Clay, trace or small		
						gravel, occasional sand and silt		
40.0		130	180			seam, very tough		*******************
		1				End of boring		
						Ditte of Borner		
	No.	The state of				N /!! DVC		
	1					Note: 4" PVC pipe installed in		 - - - - - - - - - - - - - - - - - -
	-	1				this bore hole, see text for well		
						installation data		
	1						} 	
	7	Plan						
		1						
		1						
	1							
	16.70		(1)					
		1						
	arer		200					
	1		13					
The said			3000		A CONTRACTOR		10 00	30 40 50
DEPTH	S	T	N	LR	DD	DESCRIPTION	10 20	30 40 50
VEFIE	1 3						WC A NATURAL %	

LEGEND:

A—AUGER
ACR—AFTER CASING REMOVAL
AD—AFTER DRILLING
BCR—BEFORE CASING REMOVAL C-CORE DCI-DRY CAVE IN

DD—DRY DENSITY, LB. PER CU. FT DEPTH—FEET BELOW GROUND SURFACE FT—FISHTAIL HA—HAND AUGER HS—HOLLOW STEM AUGER

L—SAMPLE LENGTH
N—PENETRATION, BLOWS PER FT.
OU—UNCON, COMP. STRENGTH
LBS. PER SQ. FT.
R—LENGTH OF SAMP. RECOVERED
S—SAMPLE NUMBER

SS—SPLIT SPOON
ST—SHELBY TUBE
T—TYPE OF SAMPLE
WC—WATER CONTENT %
WCI—WET CAVE IN
WD—WHILE DRILLING
WO—WASHOUT



Walter H. Flood & Co., Inc.

ENGINEERS

4421 HARRISON STREET HILLSIDE, ILLINOIS 60162 7509 S. WESTNEDGE AVENUE PORTAGE, MICHIGAN 49081

RIM ELEVATION = 730.45

SOIL BORING LOG NO. 9 W

6108

FOR:

John Sexton Contractors Company

PROJECT:

Solid Waste Management Facility

Richton Park, Illinois LOCATION: DRILLING DATA **BACKFILLING DATA** METHOD OF BORING HS WATER LEVEL READINGS DATE S.S. O.D. 2" 140# HAMMER 30" DROP Dry W.D. DATE RF Dry B.C.R. FOREMAN BY SHELBY TUBE SIZE 2 METHOD CASING SIZE 20' - 3 3/4" IDHS Dry A.C.R. CREW NO. 74050138-5 JOB NO. GROUT HRS. A.D. VERT. SCALE 1" = 10' CORE SIZE Dry @ 24 HRS. A.D. QUANTITY

EPTH	s	Т	N	LR	DD	DESCRIPTION	QU LABORATORY X 1000 PSF 4	O PENETROMETER 6 8 10
			1	111			486666888888888888888888888888888888888	
00		1		111		Ground surface		
0.0				111	811			
. 5	1			111		Black loam	<u> </u>	
-				111		Brown and gray silty clay, trace		
		1		111				
13 y 17 1	18					of small gravel, very tough,		27 141 127 22 21 38 11 1 1 1 1 E
- STE	5	The last		111			498888888888888888888888888888888888888	
	1	Lag !						
No.	es l	1		111				
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1 1		100						
		LE X						
36.79	0			111				
							40270,071AV B31501178131818781	
15.0	1327			111				
	SEV.		Williams.	111	1 1	See note 1	<u></u>	
6.5	347		776	+++		Gray silty clay, trace of small		
				111				
		189				gravel, very tough		
20.0			-	+++				
				111				
1947		12115				End of boring		
	34	1					} 	
100				111			1 1 	
3.4	Sh a	1				Note 1: Gray fine medium sand,		
200	1	de				some silt		01 10 11 11 12 10 1 1 1 1 1 1 1 1 1 1 1
						Some Sire	1011068366 DARRESTER [2006] [
100	178							
		-				Note: 4" PVC pipe installed this	 	
				111			 	
the last						bore hole, see text for well	 	
						installation data		
7							1214191413 9141414141 1411821	
							1231111111 53111] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
S. Land	1	200				[20] - 10 [20]		
100							 	
							 	
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AUT EL		13					 	+++++++++++++++++++++++++++++++++++++++
1 198		5					 	+++++++++++++++++++++++++++++++++++++++
		25					H-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
140		P. S						
		1						
		3814						
		. 44						
		PO DE						
				N.				
							10 20	30 40 50

LEGEND: A—AUGER
ACR—AFTER CASING REMOVAL
AD—AFTER DRILLING
BCR—BEFORE CASING REMOVAL
C—CORE
DCI—DRY CAVE IN

DD—DRY DENSITY, LB. PER CU. FT DEPTH—FEET BELOW GROUND SURFACE FT—FISHTAIL HA—HAND AUGER HS—HOLLOW STEM AUGER

-SAMPLE LENGTH N—PENETRATION, BLOWS PER FT. QU—UNCON, COMP. STRENGTH LBS. PER SQ. FT. R-LENGTH OF SAMP. RECOVERED S-SAMPLE NUMBER

SS—SPLIT SPOON
ST—SHELBY TUBE
T—TYPE OF SAMPLE
WC—WATER CONTENT %
WCI—WET CAVE IN
WD—WHILE DRILLING
WO—WASHOUT

EJSE RR ROW. CECO RO.W COPLCO ROW. 01 734 730' AVENUE CENTRAL SAUK TRAIL

NOTE:

LOCATION STAKED BY OTHERS)



MONITORING WELLS LOCATION DIAGRAM

RICHTON PARK, ILLINOIS

WALTER H. FLOOD & CO. INC.

JOB/LAB NO. 77050152 DATE 8/15/77